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U. S. Department of Agriculture

T.M.Howard

ZEPHYR HILL GARDENS

Rt.13 , Box 524
9138 San Pedro Ave.
San Antonio, Texas

Fall 1961-Spring 1962

Terms: Prices are for single bulbs unless otherwise noted, and of flowering size, unless so specified. Cash with order by currency, bank draft, money order, or personal check. Texas residents add 2% State sales tax. POSTAGE: Add 10% for postage and handling. No export sales. Minimum order \$3.50 No substitutions, unless authorized; however, since many items are in very limited supply, it may be wise to state a second choice. LIMITS: Many items must necessarily be limited per customer, due to limited supply.

We proudly present a listing of bulbs, many offered for the first time anywhere, obtained from collectors and hybridizers in this country.

Tribe Zephyranthiae --A division of the Amaryllis family, which includes the Zephyranthes, and the subgenus Cooperia, as well as Pyrolerion, Habranthus, Rhodophiala, and Sprekelia. Hybrids of these are also included.

Sprekelia-- We list S. formosissima var. "Orient Red". This is a vastly superior variety, bright red, with a white line through each segment. Flowers both spring and fall, with occasional blooms inbetween. Like a huge red orchid. \$1.25 each. New and rare.

Rhodophiala bifida--(Amaryllis advena)-- Oxblood lily. Dark red flowers of Amaryllis-like habit in late summer and early fall preceding foliage. Half-hardy. Will stand temperatures down to zero. 3/\$1.00 \$3.00 doz. Summer delivery.

Habranthus-- of the "Rain lily" group, with similar habits. Same culture.

H. robustus--large lt.pink flowers of trumpet form. 5/1.00 or \$2.00 per doz.

H. texanus (H.Andersonii var. texanus)-- Copper lily--dwarf, golden yellow fls. with copper-red throat and exterior pencilings. 10/2.00

H.Floryii--var. "Primo"-- A hybrid of H.robustus x H.brachyandrus from the late Grace Primo of Mobile, Ala.Orchid-pink with deeper throat on tall stems. Trumpet form. Limited supply. \$2.50 each

Pyrolerion (Zephyranthes) we can only offer bulblets in limited supply, which will flower in two years. These are mixed flammeum(orange) and aurea(yellow), with flammeum predominating. 3/1.00

Cooperia (Zephyranthes) open in afternoon, night blooming fragrant flowers of starry form, having long tubes topping a tall stem of 10-12".

C. pedunculata (Z.Drummondii) --Large fls.in early summer, with occasional ones into autumn.Daffodil-like lvs. and large bulbs. 3/1.00,12/3.00

C. Drummondii (Z. brazosensis)--smaller white stars on taller stems.Narrow lvs. Should be hardy to Kansas. 3/.50, 12/1.50

C. Smallii-- A recently described species.Cheery lemon yellow stars of variable form.All summer and into autumn. 3/1.00,12/3.00

All Cooperias are at least half hardy with little protection. If desired, like all above items, they may be lifted and stored over winter in coldest climates.

C. Jonesii--another yellow Cooperia, fading to cream.Stocks too small to list, but we anticipate offering it in '62.

Zephyranthes---- Rain lily, Fairy lily, Zephyr lily. Our specialty. A festival of bloom in a riot of hues from late spring until autumn, April 'till October in our area. Red,rose,pink,blush, white,orange,gold,yellow,cream, and bicolor combinations are to be found in the species and hybrids. Give full sun, rich well-drained soil, and soak thoroughly 3-4 times monthly if there is little or no rainfall.They need active growth to flower heavily. Some species are very tender(tropical sorts), while many from Texas and Mexico are half-hardy.

Z. candida-- White crocus-like flowers heavily produced from midsummer till fall above deep lustrous green rush-like lvs. 10/1.00

Z. citrina--golden-yellow small crocus-like fls. on tall stems all summer. 4/1.00 12/2.50 (when available)

Z.pulchella var."OSO"-- we feel that this particular strain is better than the type. The flowers are a bit larger, of flatter form, and last twice as long as the usual form. Golden-yellow,midsummer till fall. .50 each, 10/3.50

Z. pulchella--like above, but a bit smaller fl. in orange yellow. Stocks too small to offer, but we hope to offer it in '62, at 10/2.50

Z. longifolia--elfin species in lt.yellow, with thread-like lvs. in early summer. A few to spare at 1.00 each. We hope to have it in larger quantities at a lower price within a year.

Z.Clintiae--a variable species in pink,rose, and rose-red.We offer #M-154 (Clint) M-154-- vigorous plant in rose-pink,of crocus form. 1.00 each, We can also offer a smaller form in pink, and also in rose-red, next summer (1962) at same price.

Z. Refugiensis-- bright lemon fls. with green throat on prominent green tubes.Newly discribed. To be offered in summer of '62.

- Z. Grandiflora--Large Rose-pink. Popular species. May be hybrid. Limited supply. .50 each
 Z. Atamasco-Giant White from S'East U.S. Spring Flowering. 1.00 each when available.
 Z. Rosea--The true species. Small fls. in deepest rose. From midsummer on. Tender. 4/1.00
 Z. insularum--white, midsummer flowering. Dark green flat leaves. Tender. A few to spare at .50 each, 3/1.25
 Z. bifolia (Habranthus cardinalis) scarlet red, from W. Indies. None to spare this year.

Undiscribed species

- Z. "Valles" (Vah-yes)--yellow. A vigorous lt. canary-yellow Mexican species of great promise. Like Z. citrina, this species is destined to become a standard yellow flowering garden bulb. Our discovery. Vigorous, and flowers 6 months of the year with us. .50 each, 3/1.25, 10 for 3.00
 Z. "Antiguo Morelos"--Clint #550--creamy-white counterpart of "Valles" with more slender petals. Brighter green lvs. 1.00 each
 Z. "Crepe"-- Mexican species from Tamaulipas. Small pink fls. with white markings and having an unusual crepe texture. free flowering all summer. 1.50 each
 Z. "Jacala bicolor"-- small light yellow fls tipped red, and veined in the same color. unique combination. Tall stems. 1.00 each

We have other species in supplies too small to offer at this time, but which may be available to interested parties on special request.

Howard Hybrids--- Years ago, in India, Lancaster developed a strain of Rain lily hybrids between Cooperia and Zephyranthes, which he called Cooperanthes. A few of these hybrids are still in existence in this country and are occasionally offered for sale. Originally the Cooperanthes were a varied lot, but the few hybrids offered today are pinkish to white. Our own new hybrids have recaptured the variety of the Cooperanthes, and the addition of new species has created a new race, that is distinct, and in some ways superior to the Cooperanthes. Our main objective was to create new colors and also new forms. Mere size was bypassed in favor of form and color. To be sure, we reaped a harvest of hybrids which also improved in size over the original species, but at no loss in gracefulness or charm. In most cases, these new hybrids flower more freely and grow more vigorously than the species. We hope that you will be tempted to try a few.

Z. Ruth Page--Award of Merit-American Plant Life Society, 1958

- Vigorous rose-pink of medium-large size and graceful form. Multiplies rapidly and quickly forms large clumps if undisturbed. Produces small bulbs. Forerunner of a new hybrid race. .75 each 3/2.00
 Prairie Sunset -- pink and yellow bicolor of truly "sunset" shades. Pastel goblets of wonderful vigor and amazingly floriferous, on tall stems. Already popular. 1.00 each 3/2.50
 Fire Ball-- Small rounded flowers on tall stems, opening a blazing burnt-orange with yellow center. In chamelion fashion, it gradually lightens to a pastel salmon and cream. Unusual. 1.50 each
 Pink Ice--Very graceful blush-white flowers on medium stems. Very dainty in spite of its size. 1.50 each
 Kitty Clint--Of the same graceful form as PINK ICE, but taller, and of a cool glistening yellow veined and blushed with pink. The entire flower gradually fading to cream. Small supply, at 3.00 each One of the largest hybrids.
 Eubank--Of the same parentage as RUTH PAGE, but a lighter shade of rosy-pink with a showy white center and a bit of emerald green in the throat. Rather slow propagator. 1.50 each Medium-large
 Texas--Large flowers on very tall stems opening light yellow with rosy veinings and suffusions, fading to Ivory. Flowers often 4-4½" accross and 12-15" tall. A forerunner of giants. Wonderful vigor. 2.00 each
 Lolita--small coppery yellow. Very bronzy effect. 1.00 each, 3/2.50
 Alamo---Lovely clear pink. Medium-large flower. Rapid increaser. 1.00 each
 Apricot Queen--Destined for popularity. Amazing vigor. Lovely Small flowers of very pleasing form and substance in clear apricot with yellow center. 1.00 each, 3/2.50
 Maria Luisa--a very warm shade of pink with a cream center. Medium-large size, good form, and free flowering. 1.00 each, 3/2.50
 Marcia-- Another of the giant type, with flesh-pink flowers and white center. Vigorous and desireable.
 Peachy-- elfin flowered peach pink hybrid, multiplying rapidly and flowering heavily over a long season. At its best in clumps, which it quickly forms. Small, but very cheery and charming.
 Isabella--Much like Cooperia smallii in form, but orchid pink with white central star. Ruffled slender petals. Free flowering. 1.00 each, 3/2.50

- San Antone--Another hybrid of *C. Smallii*, and like it in form. Slender petals of a warm shade of coppery-salmon approaching orange at times, with a bright yellow center. Unusual. 1.50 each
- Ivory Star-- Pretty yellow *Cooperia* hybrid of great vigor. Exterior flecked with dark copper-red, and sometimes penciled into the interior. Fades to clear Ivory. 1.00 each, 3 for 2.50
- Midas hbrids--a strain of yellow flowering hybrids of tall stature and great vigor. Some variation in form and shade of yellow, but all are richly colored.
- Huasteca Hybrids-- A variety of shades of pink and rose, with variation in form. All have wide open large flowers and increase rapidly, flowering over a long season. .75 each, 3 for 2.00
- Grande hybrids--a strain of grandiflora hybrids in dark rose-pink. Smaller than grandiflora, but of darker color. Rapid increase. Medium-large size. .75 each
- Mixed species and hybrids-- .50 ¢ each, 3/1.00 ,12/2.50. Includes all available kinds, and many not listed.
- Cooperanthes--Originated in India. We have a few, at .75 each. These are in shades of pink, and large flowered. We have a very few in yellow and bronze. Offered in mixture only.

CRINUM-- Large lily-like Amaryllids, some of which are giants, while most of them are of medium size. A few real dwarfs exist. Tender, save in lower South. At their best in rich soil with adequate moisture. We list but a few, but our collection numbers above 40 kinds in all.

Seven Sisters--6 to 8 large starry white fls from early summer till frost. Dark green upright foliage. Does not make a large bulb, and plant is not overlarge. Rare hybrid of Southern origin. 3.00 each.

Ellen Bosanquet--Popular wine-red flowers in midsummer. Startlingly showy and most distinct. Medium-low height. Very robust habits. \$2.00 each

J.C. Harvey--pretty clear pink. Rather shy bloomer, but easy. small bulbs. 1.00 each

Virginicum--huge bulb and plant, of milk-and-wine type. White trumpets with pale pink keel. 5.00 each, small bulbs 1.50

"Campanulatum"--likely a hybrid. This is not the same as the true red species of the same name. Large white saucers with strong wine-pink keels. Vigorous. \$2.00

C. scabrum--species--A night bloomer, that is stunningly attractive. Huge saucers of white, with bold carmine-red stripes. Like a Candy stick or barber pole in effect. Low growing. Early summer. Fragrant. 3.00 each

C. bulbispermum--blue green lvs. Small white trumpets keeled pink. Not showy, but the hardiest and most persistent. 2.50 each

C. Americanum robustum-- showy white stars all summer. Increases rapidly by stolens. This variety of the species will grow under ordinary conditions. 2.50 each

Hymenocallis-- Spider lily, Basket flower, Ismene, Amerindian lily, Peruvian Daffodil. Exotic flowers of etherial grace and charm, having slender long petals, and crowned by a corona varying from a tiny crown to some of large trumpet shape. All are of purest white, but some have touches of green or yellow, and there is at least one yellow species, and several yellow hybrids. Most of them are of easy culture, liking rich soil and moisture. We have many species and hybrids but list a few that are in fair supply.

Hybrids: Originated by Len Woelfle, of Ohio. These are of easy culture, and thoroughly satisfactory. A definite step forward within this group. All are new.

PAX--Destined to be popular. Opens lt. yellow, and soon passes to Ivory.

Huge loudspeaker fringed trumpet strongly keeled green and yellow in the throat. Cream-yellow petals. Eye catching, and lik no other. 4.50 each

Helios-- The darkest yellow hybrid offered, being a shade deeper in hue than than either Sulfur Queen or Icon. Only a very few bulbs at 5.00 each.

Icon-- Improved Sulfur Queen. Similar, but with more perfect flowers in the same shade of lt. yellow. Very small supply at 3.75 each

Species-- All names are tentative at best.

Littoralis--late flowering, robust type with large white showy crown.

Narrow lvs, sword-like. Multiplies quickly and makes small bulbs. 2.00

Tenuiflora--popular tropical kind of large proportions. Shiny wide lvs. and large scapes in early summer. .75¢ each

Senegambica-- Dwarfish. Narrow lvs. A "clumper". "Daddy long legs" fls. 1.00

Harrissiana-- Dwarf type with small flowers. Midsummer. Deciduous. 2.00

Caribaea--Stiff sword like foliage. Slow growing. Daddy-long-legs fls. 2.00

Eucharidifolia-- A new beauty with compact bluish lvs, erect habit. Snowy white fls. of good substance. Slow. Increased by seed only.

A few 2-3 yr old seedlings at 1.50 each

Hymenocallis "New Lion"-- A species with dull green lvs. and large bowl shaped bulbs. Medium sized plants. Attractive white "spidery" fls in midsummer. 2.00

Bulbs for Fall planting

Allium-- A showy group of fall-planted, spring-flowering bulbs belonging to the same group that contains chives, leeks, onions, and garlics. Many Alliums are very ornamental, and very easy to grow. We specialize in Texas natives, of which some of the finest kinds are found.

- A. Coryii-- Bright golden yellow stars in late spring. Likes well drained soil, moist in spring and dry in summer. The only yellow Allium from the New World, and we feel, the best. This is the first time that this species has been offered in many years. RARE. This one is a must. 10 for 2.50
- A. Drummondii-- exactly like A. Coryii, save for color. This species can be found in white, pink, lavender, and wine-red. Separate colors, 1.50 doz. Mixed, 1.00 doz. Combines well with A. Coryii.
- A. Mobilense-- fluffy round heads of lav. pink fls. in late spring. Rushlike lvs. tall and showy. 1.25 per doz.
- A. ecristatum-- tall pinkish stars. Revels in moisture while growing. Rare. 1.25 doz.
- A. Zenobiaea-- very tall dense round heads in late spring. Silvery-pink. .50 per plant
- A. "Eulae"-- cream-white fls. in late spring. Tall, with large umbels. Loves moisture while growing. plants-1.00/5
- A. acetabulum-- white, small dense umbels in late spring. Pretty. .25/plant
- A. hyacinthoides-- early flowering lav. pink, fragrant heads above pretty blue-grey lvs. Handsome. 2.00 per doz.

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- A. Cowanii-- Old World species. Hardy only in South. Snow white frosty heads in early spring. 1.50 per doz.
- ***** A. roseum grandiflorum-- pretty pink heads in mid-spring. 1.50 per doz.
- Nothoscordum bivalve-- a fragrant native of southern US and Mexico. Starry cream-white fls opening in afternoons. Fls. spring and fall, and often in late summer. Nearly everblooming under cultivation. 1.00 per doz.
- N. inodorum (N. fragrans) similar to N. bivalve, but with bluish lvs., taller, and very fragrant white stars. Nothoscordums are very closely akin to Alliums, but lack the alliaceous odor of the bulb. Unlike Alliums, the flowers close at night. Stems are produced in long succession. Not showy, but charming.
- ***** Androstephium cerulium-- Relatives of Brodiaeas, but with larger upfacing lavender and pale blue fls. on short stems. Spicy fragrance. Threadlike lvs. Early flowering large bulbs-- .50 each, smaller, .25 each
- ***** Nemastylis geminiflora-- a showy blue flowered Irid with pleated lvs. A few at .75 each.
- ***** Ranunculus macranthus-- Texas Buttercup-- showy golden yellow fls. all Spring. easy to grow and flower. 5/1.00 plants.
- ***** Sisyrinchium sp.-- Blue Eyed Grass. Fibrous rooted Irid, with Iris-like lvs. and fls. like tiny Nemastylis. plants .25 each
- ***** Camassia scilloides-- Wild hyacinth-- slender stems a foot or two tall with many starry lavender blue fls. in spring. Does well in S'West, where other Camassias fail. 1.50 per doz.
- ***** Schoenocaulon texanum-- Green lily-- spring flowering, late. Tall stems with small crowded fls having minute green petals and showy white stamens. plants 50. each
- S. Drummondii-- similar to above, but summer and fall flowering. Taller and whiter. 75. each plants
- ***** Manfreda maculosa-- bulbous plant with succulent spotted lvs. White fls, aging maroon-brown. Resembles a tuberose. 1.00 each Early summer.
- Other Native Manfredas available upon request.

CACTI---

We have the Spiral Hedgehog (Hamatocactus setispinus) with yellow fls. with red eye, all summer, at .75 each. Lace hedgehog (Echinocactus Reichenbachii) with large fragrant pink to purple fls., same price. Cream cactus (pincushion) (Mammillaria heyderi), pinkish-white spring flowers, ditto.

- **** Cipura plicata -- plicate foliage. Small white evening Blooming flowers, much like Nemastylis in appearance. 5/1.00
- ***** Oxalis Drummondii-- Fall flowering, with pretty lavender blooms. Speckled clover like lvs. 5/1.00

All native bulbs are hardy in Central Texas. We experience regular freezes that seldom drop below 20 degrees. We have had zero degrees twice in the last decade, and all bulbs came through, even without protection, including the tropicals. In colder climates, some protection may be required. In some instances merely planting deeper will suffice. You will have to use common sense and your own observations of vegetation in your own area as to hardiness.